

Using Trigonometric Identities (15%)

The following are well-known identities. They are true for all values of the variables for which the functions are defined.

<p>Reciprocal Identities</p> <p>$\csc \theta = \frac{1}{\sin \theta}$ $\sec \theta = \frac{1}{\cos \theta}$ $\cot \theta = \frac{1}{\tan \theta}$</p> <p>$\operatorname{csc} \theta = \frac{1}{\sin \theta}$ $\operatorname{sec} \theta = \frac{1}{\cos \theta}$ $\operatorname{cot} \theta = \frac{1}{\tan \theta}$</p>
<p>Quotient Identities</p> <p>$\tan \theta = \frac{\sin \theta}{\cos \theta}$ $\cot \theta = \frac{\cos \theta}{\sin \theta}$</p>
<p>Pythagorean Identities <i>These are derived from the properties of Pythagoras and identity of cosine.</i></p> <p>$\sin^2 \theta + \cos^2 \theta = 1$ $\sec^2 \theta = \tan^2 \theta + 1$ $\operatorname{csc}^2 \theta = \cot^2 \theta + 1$</p>

These identities are used in evaluating trigonometric functions, simplifying trigonometric expressions, and solving trigonometric equations.

Evaluating Trigonometric Functions

1) If θ is a reference angle then determine an Equation (based on θ or $-\theta$) that gives $\sin \theta$ and $\cos \theta$.

2) Assume that θ is positive identity to solve for $\sin \theta$:

$$\sin^2 \theta = 1 - \cos^2 \theta = 1 - \left(\frac{3}{5}\right)^2 = \frac{16}{25}$$

$$\sin \theta = \pm \sqrt{\frac{16}{25}} = \pm \frac{4}{5}$$

$$\sin \theta = \frac{4}{5} \quad \text{or} \quad \sin \theta = -\frac{4}{5}$$

$$\sin \theta = \frac{4}{5} \quad \text{or} \quad \sin \theta = -\frac{4}{5}$$

3) There are two solutions to this equation. Explain how you determined the negative solution. *For a positive reference angle, the negative solution is the negative of the positive one.*

4) If θ is negative identity to find $\cos \theta$:

$$\cos^2 \theta = 1 - \sin^2 \theta = 1 - \left(\frac{4}{5}\right)^2 = \frac{9}{25}$$

$$\cos \theta = \pm \sqrt{\frac{9}{25}} = \pm \frac{3}{5}$$

$$\cos \theta = \frac{3}{5} \quad \text{or} \quad \cos \theta = -\frac{3}{5}$$

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David Kirk



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